5036

DECLASSIFIED BY NOAA
PURSUANT TO DOC SYSTEMATIC REVIEW
GUIDELINES AS DESCRIBED IN SECTION
3.3(a), EXECUTIVE ORDER 12356.

Biag. Cht. No. 4000

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey HYDROGRAPHIC

Field No. 1 Office No. H-5036

LOCALITY

State TEMPLITORY OF HAWAII

General locality NECKER ISLAND

Locality APOUND THE ISLAND

194 29

CHIEF OF PARTY

K. T. Adams

LIBRARY & ARCHIVES

DATE NOVEMBER 21, 1930

B-1870-1 (1

DECLASSIFIED BY NOAA
PURSUANT TO DOC SYSTEMATIC REVIEW
GUIDELINES AS DESCRIBED IN SECTION

3.3(a), EXECUTIVE ORDER 12356.

The state of the s

5038

5036

DECLASSIFIED BY NOAA
URSUANT TO DOC SYSTEMATIC REVIEW
UIDELINES AS DESCRIBED IN SECTION
3.3(a), EXECUTIVE ORDER 12356.

Bepartment	\mathfrak{nf}	Commerce	and	Tahor
COAST A	ND	GEODETIC	SURV	ΈY

R.S. Patton

Superintendent.

State: Territory of Hawaii

DESCRIPTIVE REPORT.

Hydrographic Sheet No. 5036

LOCALITY:

Necker Island

Around the Island

U.S.C. & G.S.S. GUIDE

19029

CHIEF OF PARTY:

K.T. Adams

U. S. COAST & GEO ETIC SURVEY

NGY 21 1930

PURSUANT TO DOC SYSTEMATIC REVIEW
GUIDELINES AS DESCRIBED IN SECTION
3 3(a), EXECUTIVE ORDER 12356.

DEPARTMENT OF COMMERCE DECLASSIFIED BY NOAA

U. S. COAST AND GEODETIC SURVEYSUANT TO DOC SYSTEMATIC REVIEW GUIDELINES AS DESCRIBED IN SECTION

HYDROGRAPHIC TITLE3SHEEXECUTIVE ORDER 12356.

meet should be accompanied by this form, filled in as completely as possible, when the sheet is forwarded to the Office.

5036

ribiu No.	F	ie	ld	No.	1
-----------	---	----	----	-----	---

REGISTER	MO	F021	-
MEGIDIEN	NO.	5036)

State Territory of Hawaiian 1.5.
General locality Necker Island
Locality About Necker Island June 15, 1928 and
Scale 1:5,000 Date of survey June 8,9,19,
Vessel U.S.C. & G.S.S. GUIDE
Chief of Party K. T. Adams
Surveyed by Glendon E. Boothe & W.H. Bainbridge and ship
Protracted by Henry J. Healy
Soundings penciled by Henry J. Healy
Soundings in fathoms
Plane of reference MLLW
Subdivision of wire dragged areas by
Inked by
Verified by
Instructions dated March 26, 192 8
Remarks:

GPO

DECLASSIFIED BY NOAA PURSUANT TO DOC SYSTEMATIC REVIEW **GUIDELINES AS DESCRIBED IN SECTION** 3.3(a), EXECUTIVE ORDER 12356.

Descriptive Report

to accompany

Hydrographic Sheet No. 1

Necker Id. T.H.

Scale 1:5,000

DATE OF INSTRUCTIONS: . March 26, 1928.

LICITS: The soundings were carried out from the shore line to 500 meters north, to 1600 meters south, southwest, and west, and to 1500 meters east of the island, which was sufficient to define the 15 fathom curve.

CONTROL: The usual types of small signals were used, located by topography— Topographic Sheet B, Necker Id, 1928; and sextant cuts taken from boat and topographic stations ashore. See special report attached hereto.

SURVEY METHODS: All soundings were taken with the hand lead. Nost of the work was done by a motorsailer party.

Due to wind and currents the outer part of the work was finished by the ship.

The general plan of the work was to run the lines paralleling the shore apaced 50 meters apart inside the 10 fathom curve, and 100 meters apart between the 10 and 15 fathom curves. But due to the northeasterly wind, and the strong, erratic south westerly currents sweeping about, both ends of the island, this spacing could not be rigidly maintained.

TENERAL INFORMATION: Shark Bay is open to the northeast trades and is usually filled with breakers as it was on the days the survey was made. Small boat landings could be made in this bay in very calm weather. This is true also for any part of the island where a footing could be obtained. The best landing found and used extensively was on the western side in West Cove in the lee of Northwest Cope at signal been, on a wave cut bench where an "A" framewas erected to handle the heavy gravity and astronomic instruments.

The bottom is sand and coral. The island is so small that it affords practically no shelter from any wind.

STATISTICS:

Date Day	Volume No.	No. of Positions	No. of Soundings	Statute Miles
	Note	orsailer (gre	en)	
1928				
June 15, a	1	83	394	11.5
June 8, 1929 b	1	174	540	12.2
June 9, 1929 c	ı	164	33 5	<u>8.8</u> 32.5
Totals		421	1269	32.5
	;	Ship (red)		
June 19, 1929 A	2	109	204	13.2
Grand Totals		530	1473	45.7

Respectfully submitted,

worwarded, Approved:

K.T. Adams, Chief of Party, Steamer GUIDE.

Sheet #1 Necker Id. List of Signals

Topographic-See Topographic Sheet B. Necker Id. 1928

Bag	B ow	Rok
Big	Mik	See
Bowl	Mut	Sta
Bud	Nix	Tide Gage
Cliff	North	Tom
East	Nub .	Top
Had	Off	Ūр
In	Out	Was
and -	Pin	West
Eit	Pole	

Hydrographic - Located by sextant cuts recorded in Sketch book and on Pages 20-23, Vol 1. Hydro. record.

	Lat.	Sec in				
	Long.	Meters.				
Bay	23-34	+1083	-763			
	124-42	+ 433	-1266			
	23-34	+1172	-674			
Boy	124_42	+ 638	- 1063			

Ben	23_34	+1419	- 427			
	164-42	+ 579	- 1122			
Cave	23-34	<i>+</i> 1231	-615			
	164-42	+ 803	- 89 8			
	23-34	+1452	-394			
End	164-42	+454	-1247			
******	23_54	+1441	-405			
Face	164-42	+ 519	-1182			
	23_54	+1136	- 710			
Flag	164-42	+ 752	- 949			
	23≚34	+1329	- 517			
Gap	164-42	1 648	-1053			
	23_34	+1386	- 460			
Gil	164-42	+ 699	-1002			
	23_34	+1163	- 683			
He l	164-42	+ 815	<i>-</i> 886			
	23-34	+1396	- 450			
Hi	164-42	+484	-1217			
	23_34	+ 954	- 892			
King	164-42	+ 29	-1672			
	23_34	+ 923	- 923			
Eil	164-42	+ 246	- 1455			

	Lat.	Sec	in
	Long.	meter	8.
Nat	23_34	+954	- 892
	164-4-4	2 +439	-1262
•	23_34	+ 1057	- 789
Pat	164 0 43	+ 1659	- 42
	23_34	+ 1101	~ 745
Sad	164-42	+ 685	- 1016
	23_34	+ 944	- 902
Saw	164-41	+ 1477	- 224
	23_34	+ 1442	- 404
Tip	164-42	+ 4586	- 1245

Triangulation Stations Astro.

HYDROGRAPHIC SHEET No. 5036

The following statistics will be submitted with the cartographer's report on the sheet:

Number of positions on sheet	530
Number of positions checked	216
Number of positions revised	!.6
Number of soundings recorded	1473
Number of soundings revised	. 1.85
Humber of signals erroneously	
plotted or transferred	•••••

Date: Jan. 3, 1931							
Cartographer: Anold Murray			•	•	. •	• •	
	• •	•	• •	•	•	• •	

Division of Hydrography and Topography:

Division of Charts: V

Tide Reducers are approved in 2 volumes of sounding records for

HYDROGRAPHIC SHEET 5036

Locality Necker Island, T. H.

Chief of Party: K. T. Adams, in 1928 and 1929
Plane of reference is mean lower low water, reading
3.5 ft. on the example tabulations at Honolulu
17.3 ft. below B. M. 2

Condition of records satisfactory except as checked below:

- 1. Locality and sublocality of survey omitted.
- 2. Month and day of month omitted.
- 3. Time meridian not given at beginning of day's work.
- 4. Time (whether A.M. or P.M.) not given at beginning of day's work.
- 5. Soundings (whether in feet or fathoms) not clearly shown in record.
- 6. Leadline correction entered in wrong column.
- 7. Field reductions entered in "Office" column.
- 8. Location of tide gauge not given at beginning of day's work.
- 9. Leadline corrections not clearly stated.
- 10. Kind of sounding tube used not stated.
- 11. Sounding tube No. entered in column of "Soundings" instead of "Remarks".
- 12. Legibility of record could be improved.
- 13. Remarks.

Chief, Division of Tides and Currents.

December 5, 1930

Division of Hydrography and Topography:

Division of Charts:

Tide Reducers are approved in volumes of sounding records for

HYDROGRAPHIC SHEET 5036

Locality Necker Island, T. H.

Condition of records satisfactory except as checked below:

- 1. Locality and sublocality of survey omitted.
- 2. Month and day of month omitted.
- 3. Time meridian not given at beginning of day's work.
- 4. Time (whether A.M. or P.M.) not given at beginning of day's work.
- 5. Soundings (whether in feet or fathoms) not clearly shown in record.
- 6. Leadline correction entered in wrong column.
- 7. Field reductions entered in "Office" column.
- 8. Location of tide gauge not given at beginning of day's work.
- 9. Leadline corrections not clearly stated.
- 10. Kind of sounding tube used not stated.
- 11. Sounding tube No. entered in column of "Soundings" instead of "Remarks".
- 12. Legibility of record could be improved.
- 13. Remarks.

Chief, Division of Tides and Currents.

HOM

VERIFICATION REPORT to accompany HYDROGRAPHIC SHEET #1. NECKER I, T.H.

This will certify that I have examined the completed smooth sheet and records and hereby approve them. The usual amount of supervision was had over the launch work. Most of the ship work was done under my direct supervision.

Your attention is called to the fact that in the Ship work the control became quite weak in places when the soundings were at some distance from the island.

The cuts by which the hydrographic signals were located are to be round in one note book (in addition to the sounding volumes), which note book forms a part of the records of this sheet.

K. T. Adams, Chief of Party,

Steamer GUIDE.

SECTION OF FIELD RECORDS REPORT ON SHEET No. 5036

CHIEF OF PARTY - H. J. adams DATE SURVEYED - June 15,1928 & June 8-10,1929 SURVEYED BY - g. E. Brothe, W. W. Bainbrilge PROTRACTED BY - N. J. Healy SOUNDINGS PLOTTED BY - W. J. Healy VERIFIED + INKED BY - Harold Munay

- ! The regals conforms to the requirements
- If the general Instructions. 2. The plan and character of development fulfill the requirements of the specific Instructions.
- 3. Few crossing resulted since the work was developed in circles at not the island.
- 4. ample bottom characteristés voue taken ful none were added by the field justy to the smooth sheet. These were slatted in the office.
- 5. The usual depth curres can be completely drawn save the 3- fathous curre Inshore.

6. Signal "Fel," established by the Hydro-graphic party at present stands alone in the water. It may be on a work but no explanation can be fruid in the desinpline report. 7. The work was somewhat troublessme in checking. Time intenst are frequently for from uniform which may be due to conditions of wind and current. This may amount for covered fixes. many I the positions are characterized by small angles rouging from 8 to 10 degree. In the risch done by the ship on "I" day, serell prositions remote from the island and in the N.E. & N.W. sections could only be checked within about 25 meters. Little a no appreciable distortion in latitude between lat. 23-34-30" and 23° 35' is present. All they parts tend to show uniform shinkage. 8. Positions 18a to 21a and 65a to 69a cannel he renfied at present due to the use of signals It and Boom which are not Boat Shut reid Jan. 28, 1931 and contained necessary information to manant reinfying, Junming

as yet, has not been received by this The shore line was transferred from a reduction of T-4422 and description rames added. 10. no trat sheet In this sheet H-5036 has as yet been received by this 11. no voelsps were made as adjacent work has not yet been received. Respectfully submitted: - Jan. 5, 1931 Harolllomunay

AND REFER TO NO. 11-W SW

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

WASHINGTON

April 21, 1931.

SECTION OF FIELD RECORDS

Report on Hydrographic Sheet No. 5036

Necker Island, Hawaiian Islands

Surveyed in 1928 - 1929

Instructions dated March 26, 1928 (Guide)

Chief of Party - K. T. Adams

Surveyed by G. E. Boothe, W. H. Bainbridge

Protracted and plotted by H. J. Healy

Verified and inked by H. W. Murray

- 1. The records conform to the requirements.
- 2. The plan, character and extent of the survey satisfy the general and specific instructions.
- 3. As most of the lines parallel the shoreline there are not many crossings. These are satisfactory.
- 4. The information is sufficient for completely drawing the five and ten fathom curve.
- 5. The junction with H. 5053 will be reported in the review of that sheet when it is completed.

There is no previous survey of this area.

- 6. The usual amount of field plotting was well done by the field party except that no bottom characteristics were plotted.
- 7. Character and scope of surveying The area is believed to be sufficiently developed as there are apparently no passages through reefs at landings or prominent shoalings. The control of some of the outer lines is quite weak, due to the limited area available for signals, and the small angles resulting.

- 8. No additional work is recommended.
- 9. Reviewed by R. L. Johnston, March 10, 1931.
 Approved:

signed a M Soberalski
Chief, Section of Field Records (CHARTS)

Chief, Section of Field Work (H. & T.)

AND REFER TO No. 11-WSW

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

WASHINGTON

April 21. 1931.

SECTION OF FIELD RECORDS

Report on Hydrographic Sheet No. 5036

Necker Island, Hawaiian Islands

Surveyed in 1928 - 1929

Instructions dated March 26, 1928 (Guide)

Chief of Party - K. T. Adams

Surveyed by G. E. Boothe. W. H. Bainbridge

Protracted and plotted by H. J. Healy

Verified and inked by H. W. Murray

- 1. The records conform to the requirements.
- 2. The plan, character and extent of the survey satisfy the general and specific instructions.
- 3. As most of the lines parallel the shoreline there are not many crossings. These are satisfactory.
- 4. The information is sufficient for completely drawing the five and ten fathom curve.
- 5. The junction with H. 5053 will be reported in the review of that sheet when it is completed.

There is no previous survey of this area.

- 6. The usual amount of field plotting was well done by the field party except that no bottom characteristics were plotted.
- 7. Character and scope of surveying The area is believed to be sufficiently developed as there are apparently no passages through reefs at landings or prominent shoalings. The control of some of the outer lines is quite weak, due to the limited area available for signals, and the small angles resulting.

- 8. No additional work is recommended.
- 9. Reviewed by R. L. Johnston, March 10, 1931. Approved:

Chief, Section of Field Records (CHARTS)

Chief, Section of Field Work (H. & T.)

		 appli	1 to cl	w 418	lang.	19,1940	g.K.S.
		00			7		
4							
							:
,							
, .							
				*			
i							
· · · · · · · · · · · · · · · · · · ·							
:	,						